

ENERGY-EFFICIENT DUCT, HEAD CELL WITH DUCT AND METHODS**Abstract**

5 A duct for conveying influent to a head cell having multiple, vertically
aligned trays has an inlet end and an outlet end. The inlet end can be connected to an
influent channel positioned at a level above the head cell apparatus. The outlet end is
positioned downstream of the inlet end and can be connected to the head cell. The outlet
end has multiple, discrete nozzles that are spaced apart in a vertical direction and correspond
10 in number to the multiple trays. Influent that enters the inlet end of the duct travels
downwardly and exits the duct through orifices in the nozzles, entering each of the
respective trays.